

Digital Illumination Meter

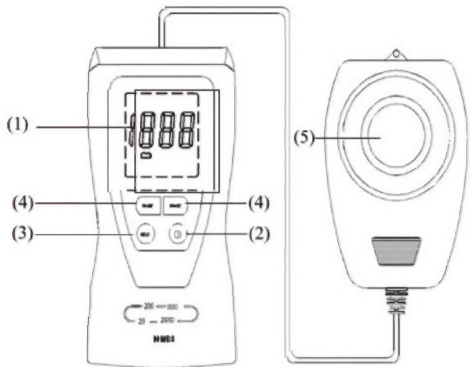
Instruction Manual

1. Specifications

- Display: 3 1/2 digits
- Max reading: 1999
- Range: 20; 200; 2,000; 20,000 lux (PLMT12)
200; 2,000; 20,000; 200,000 lux (PLMT15)
At 20,000 lux range, measured value = reading X10
- Spectrum characterization: meet CIE photopic standard
- Spectra accuracy: $f_1 \leq 6\%$
- Cos reaction: $f_2 \leq 2\%$
- Accuracy: $\pm 3\%$ reading + 0.5% f.s
 $\pm 4\%$ reading ± 10 digits, for the range of 20,000 lux
- Repeatability: ± 2
- Temperature coefficient: $\pm 0.1\%/^{\circ}\text{C}$
- Sampling rate: 2 samples/sec
- Working temperature: 32°F-104°F (0°C-40°C)
- Working humidity: 0-80%RH
- Storage temperature: 14°F-122°F (-10°C-50°C)
- Storage humidity: 0-70%RH
- Over flow display: when only the first digit shows 1

- Power: 9V battery
- Battery life: 200 hours (Alkaline battery)
- Length of photo sensor test lead: 4.92 inch
- Photo sensor size: 0.285 (L) x 0.197 (W) x 0.095 (H) inch
- Meter size: 0.433 (L) x 0.223 (W) x 0.085 (H) inch
- Weight: 0.445 lbs
- Accessories: Instruction manual, battery

2. Parts and function keys



- (1) Display
- (2) Power switch
- (3) Hold reading key – Push “HOLD”key once, “H” sign is shown, displayed reading is locked but no measurement continues, push“HOLD”key again, HOLD function is cancelled, measurement continues.
- (4) Range switch
- (5) Photo sensor

3. Measurement

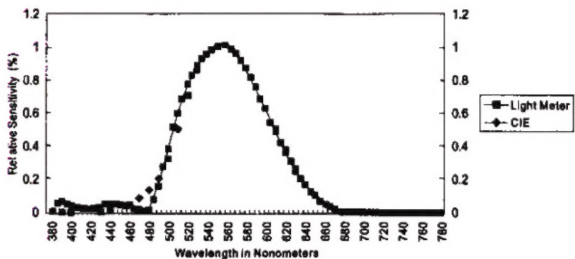
- (1) Turn power on.
- (2) Select range.

- (3) Take off photo sensor cover and put the sensor facing the light source.
- (4) Get reading from display.
- (5) If only the first digit shows 1, it means overflow, select higher range.
- (6) When using the 20,000 Lux range, the measured value is equal to the reading X10.
- (7) You can push“HOLD”key to stop the measurement and read the data, pushing the“HOLD”function and meter is back to measuring mode.
- (8) After the measurement is done, turn off the power and put the photo sensor cover back.

4. Battery replacement

- when battery runs out of power, the display shows “ ” sign, you should change battery now.
- open the cover of battery chamber at the back of meter, take out the old battery and put a new 9V battery in.

5. Meter sensitivity vs wavelength



6. Application tips

- Do not use meter in environment where temperature and humidity are outside the specified range.
- Handle the photo sensor carefully and maintain its cleanliness.
- Optical reference source should be put at exactly the top of the

photo sensor sphere.

- Photo sensor's sensitivity and accuracy may drift as environmental conditions change. To maintain normal meter functions, periodic calibration is recommended.